

IN THE CLAIMS:

1. (Currently Amended) A method for generating a real time vertically and horizontally downscaled video signal (20) of a video image (11) by an image generating and processing block (12), comprising the steps of:

generating (30) a real-time video signal of the video image (11) by a camera sensor (14) of the image generating and processing block (12),

generating (32) a real-time horizontally downscaled video signal (18)—using horizontal downscaling of the real-time video signal by the camera sensor (14) without using a line memory, and

generating (38) the real-time vertically and horizontally downscaled video signal (20)—using vertical downscaling of the real-time horizontally downscaled video signal (18) by a processing block (16) of the image generating and processing block (12).

2. (Currently Amended) The method of claim 1, before the step of said generating (38) a the real-time vertically and horizontally downscaled video signal (20), further comprising the step of:

providing (36) said real-time horizontally downscaled video signal (18) from the camera sensor (14) to the processing block (16) through a camera compact port (CCP) bus (15) of the image generating and processing block (12).

3. (Currently Amended) The method of claim 1, wherein the camera sensor (14) has a camera memory (14a).

4. (Currently Amended) The method of claim 1, wherein the processing block ~~(16)~~ has a processing memory ~~(16a)~~.

5. (Currently Amended) The method of claim 1, further comprising ~~the step of~~:

providing ~~(40)~~ the real-time vertically and horizontally downscaled video signal ~~(20)~~ indicative of the video image ~~(11)~~ through an internal bus ~~(25a)~~ to a real-time viewfinder display ~~(22)~~ and displaying said video image ~~(11)~~ on the real-time viewfinder display ~~(22)~~.

6. (Currently Amended) The method of claim 5, wherein the image generating and processing block ~~(12)~~ is a part of a camera-phone mobile device ~~(10)~~.

7. (Original) The method of claim 6, wherein the processing block ~~(16)~~ is a base band ~~(BB)~~-engine of the camera-phone mobile device ~~(10)~~.

8. (Currently Amended) The method of claim 6, further comprising ~~the steps of~~:

encoding ~~(42)~~ the real-time vertically and horizontally downscaled video signal ~~(20)~~ by a video packing block ~~(24)~~ of the image generating and processing block ~~(12)~~, thus for generating an encoded video signal ~~(27)~~, and

providing said encoded video signal ~~(27)~~ through a further internal bus ~~(27a, 27b, 27c)~~ optionally to at

least one of: a file/stream block (28) and to a phone memory (28a) of the camera-phone mobile device (10).

9. (Currently Amended) The method of claim 1, further comprising the step of:

encoding (42) the vertically and horizontally downscaled video signal (20) by a video packing block (24) of the image generating and processing block (12), thus for generating an encoded video signal (26).

10. (Currently Amended) An image generating and processing block (12), comprising:

a camera sensor (14), responsive to a video image (11), for generating configured to generate a real-time video signal of the video image (11) and for further configured to generate generating a real-time horizontally downscaled video signal (18) using horizontal downscaling of the real-time video signal without using a line memory by the camera sensor (14); and

a processing block (16), responsive to the real-time horizontally downscaled video signal (18), configured to generate for generating a real-time vertically and horizontally downscaled video signal (20) using vertical downscaling of the real-time horizontally downscaled video signal (18).

11. (Currently Amended) The image generating and processing block (12) of claim 10, wherein the camera sensor (14) has comprises a camera memory (14a).

12. (Currently Amended) The image generating and processing block (12) of claim 10, wherein the processing block (16) has comprises a processing memory (16a).

13. (Currently Amended) The image generating and processing block (12) of claim 10, further comprising:

a camera compact port (CCP)-bus (15), responsive to the real-time horizontally downscaled video signal (18) from the camera sensor (14), for providingconfigured to provide the real-time horizontally downscaled video signal (18) to the processing block (16).

14. (Currently Amended) A camera-phone mobile device (10), comprising:

an image generating and processing block (12) configured to generate for generating a real-time vertically and horizontally downscaled video signal (20) of a video image (11), and configured to encode for encoding said real-time vertically and horizontally downscaled video signal (20) thus for generating an encoded video signal, wherein said real-time vertically and horizontally downscaled video signal is horizontally downscaled first without using a line memory -(27); and

a real-time viewfinder display (22), responsive to the real-time vertically and horizontally downscaled video signal (20), configured to provide for providing a display of the video image (11)—indicative by said real-time vertically and horizontally downscaled video signal (20).

15. (Currently Amended) A camera-phone mobile device (10) of claim 14, further comprising:

a file/stream block-(28), responsive to the encoded signal-(27b, 27c), configured to provide for providing a call connection -(28b)-to other mobile devices; and

a phone memory-(28a), responsive to the encoded signal -(27a), configured to provide for providing the encoded signal-(27).

16. (Currently Amended) A camera-phone mobile device (10) of claim 14, wherein the image generating and processing block-(12), comprising comprises:

a camera sensor-(14), responsive to the video image (11), configured to generate for generating the real-time video signal of the video image (11)-and for further configured to generate generating a real-time horizontally downscaled video signal -(18)-using horizontal downscaling of the real-time video signal by the camera sensor-(14);

a processing block-(16), responsive to the real-time horizontally downscaled video signal-(18), configured to generate for generating the real-time vertically and horizontally downscaled video signal -(20)-using vertical downscaling of the real-time horizontally downscaled video signal-(18).

17. (Currently Amended) The camera-phone mobile device (10) of claim 16, wherein the processing block-(16) is a base band (BB)-engine of the camera-phone mobile device-(10).

18. (Currently Amended) The camera-phone mobile device ~~(10)~~ of claim 16, wherein the camera sensor ~~(14)~~ has comprises a camera memory ~~(14a)~~.

19. (Currently Amended) The camera-phone mobile device ~~(10)~~ of claim 16, wherein the processing block ~~(16)~~ has comprises a processing memory ~~(16a)~~.

20. (Currently Amended) The camera-phone mobile device ~~(10)~~ of claim 16, further comprising:

a camera compact port ~~(CCP)~~ bus ~~(15)~~, responsive to the real-time horizontally downscaled video signal ~~(18)~~ from the camera sensor ~~(14)~~, configured to provide for providing the real-time horizontally downscaled video signal ~~(18)~~ to the processing block ~~(16)~~.